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TITLE: Data processing system with card reading unit - accepts card with printed circuit element inserted into reader with mechanical interlock to control use

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PRIORITY-DATA: 1983JP-0023996 (February 16, 1983), 1982JP-0111229 (July 22, 1982)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> DE 3326522 A	January 26, 1984		035	
<input type="checkbox"/> CA 1204509 A	May 13, 1986		000	
<input type="checkbox"/> FR 2530845 A	January 27, 1984		000	
<input type="checkbox"/> GB 2124420 A	February 15, 1984		000	
<input type="checkbox"/> GB 2124420 B	November 20, 1985		000	
<input type="checkbox"/> NL 8302629 A	February 16, 1984		000	
<input type="checkbox"/> US 4575703 A	March 11, 1986		000	

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 3326522A	July 22, 1983	1983DE-3326522	
GB 2124420A	July 15, 1983	1983GB-0019161	
US 4575703A	July 8, 1983	1983US-0511927	

INT-CL (IPC): G06F 3/06; G06K 7/01; G06K 13/02; G06K 19/04; G07F 7/08

ABSTRACTED-PUB-NO: DE 3326522A

## BASIC-ABSTRACT:

The data card has a rectangular format and is produced from a durable material, such as polyvinylchloride. A centre aperture provides a location for a p.c.b. Along one edge of the printed circuit is a number of connectors (3). The card (1) is entered into the reading station and is guided by side members (51a, 51b) that ensure straight line motion.

A slide element in the housing has a tee-shaped element with a shaft (5a) that

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slides in a cylindrical housing (6a) and is spring-biased (8). When the card is inserted the slide element is moved to release a mechanical interlock (9) and the contact strip (4) is brought against the contacts on the card itself. Data may now be transferred between the card and an external unit.

ABSTRACTED-PUB-NO: GB 2124420A

EQUIVALENT-ABSTRACTS:

In a data processing apparatus, a card reader for reading data stored in a card, the card reader comprising: a housing having a slit for the insertion of the card therethrough into said housing; guide means in said housing engageable with the card for guiding the card in a predetermined path during insertion of the card into said housing to an operative position in said housing; slider means movable within said housing and having a portion interposed in said path so as to be engaged by the card and moved by the card in one direction from an initial position to a displaced position upon the insertion of the card through said slit to said operative position in said housing; spring means acting on said slider means and yieldably urging said slider means in a direction opposite to said one direction; lock means engageable when the card is inserted to said operative position for holding said slider means in said displaced position against the force of said spring means; lock releasing means for disengaging said lock means and thereby permitting said spring means to return said slider means to said initial position during which said slider means propels the card out of said housing through said slit; and frictional drag means engageable with the card in said path for frictionally resisting separation of the card from said slider means when said slider means is held in said displaced position and during return of said slider means to said initial position; said frictional drag means including a rotatable roller, and means mounting said roller adjacent to said slit at one side of said path and resiliently urging said roller against a surface of the card in said path.

GB 2124420B

In a data processing apparatus, a card reader for reading data stored in a card, the card reader comprising: a housing having a slit for the insertion of the card therethrough into said housing; guide means in said housing engageable with the card for guiding the card in a predetermined path during insertion of the card into said housing to an operative position in said housing; slider means movable within said housing and having a portion interposed in said path so as to be engaged by the card and moved by the card in one direction from an initial position to a displaced position upon the insertion of the card through said slit to said operative position in said housing; spring means acting on said slider means and yieldably urging said slider means in a direction opposite to said one direction; lock means engageable when the card is inserted to said operative position for holding said slider means in said displaced position against the force of said spring means; lock releasing means for disengaging said lock means and thereby permitting said spring means to return said slider means to said initial position during which said slider means propels the card out of said housing through said slit; and frictional drag means engageable with the card in said path for frictionally resisting separation of the card from said slider means when said slider means is held in said displaced position and during return of said slider means to said initial position; said frictional drag means including a rotatable roller, and means mounting said roller adjacent to said slit at one side of said path and resiliently urging said roller against a surface of the card in said path.

US 4575703A

A lock assembly is engageable when the card is inserted to its operative position for holding the slider in its displaced position against the force of a spring. A

lock release disengages the assembly and thus permitting the spring to return the slider to its initial position during which the card is propelled outwardly through a housing slit.

A roller urged against the guided card within the housing frictionally resists separation of the card from the slider when the latter is held in its displaced position and also during return of the slider to its initial position. A muting circuit is made operative as the card moves to and from its operative position in which conductive terminals connected through a printed circuit with one or more data storage elements on the card are engaged with respective contact elements.

ADVANTAGE - Reading device is more compact.

(12pp)

CHOSEN-DRAWING: Dwg.2/9

DERWENT-CLASS: T01 T04 V04

EPI-CODES: T01-C01; T04-A03; T04-C; T04-J; V04-Q02;